

The Pileup

Summer Edition 1996

Tom Skelton Editor

SUMMER ISSUE !!!

Finally. No other word comes even close to describing what has been happening at this household in the past eight months. Sitting before me is a one-inch-plus stack of letters, diagrams, OH2BUA internet packetcluster printouts, email printouts, and just some general DX info that I have been anxious to send to the CDXA members. Where has this issue of The Pileup been?? Rambling through my head the past four months as I have commuted on an almost-daily basis between Clemson and Columbia -- 125 miles each way. The weekends left room for nothing more than trying to spend a little time with my family and catch up on my rest.

On July 22 I sat down with my boss and tried to explain that I appreciated the job after our division was shut down last fall and that he had been a good mentor. However, my wife had landed a great new job, and I had the opportunity to continue my education and go to graduate school. He looked at me with the blankest look I had ever seen from an adult and just said, "You're quitting." I nodded, and helped pick him up off the floor. We were about six weeks away from launching a new multi-processor computer system, and my job was the Operations "launching pad." My wife was going to jump back into her career as a Unix/Network guru. I was going to depart from 17 years of the corporate workplace, go to graduate school and try to be Mr. Mom for our three children.

Finally: the end of the hassle of the commuting, working in an unsteady business situation, and simply not being home with my family have ended. This next year and a half are going to be very different and exciting. I'm really looking forward to "retreading" my engineering skills and exploring new career areas. It is going to be great to see my children during the day and take them to their activities. Most importantly, my wife is excited about her new career direction. Now you know where I've been.

This issue is crammed full of antenna info, general DX news, hamfest and contest calendars, and other tidbits I have found that I thought would interest the club members. I'm sorry it's three months later than when I had planned to get it to our publisher Bill/KD4IL, who gets it to Roger/N4ZC for printing and distribution. However, I really hope you enjoy what I've pulled together.

For the next PILEUP, I would like to ask that all CDXA members take a few minutes and let me know your greatest DX thrill. I'd ask more than just the "what" -- please tell me the "why." You can reach me via mail at 230 Camelot Road, Clemson, SC 29631, or email at: tskelto@ces.clemson.edu OR WB4iUX@AOL.COM. As always, if there are some articles you want to see, let me know!

Take care and cu on the bands. Finally.

73 and gud dx! Your Pileup Editor, Tom Skelton, WB4iUX

CDXA YEARLY COOKOUT

As it has been for many years, this year's get - together will be at Frank / K4BVQ's house.

Location: **K4BVQ**
 623 Lester Davis Road
 Waxhaw, NC

Date: **October 19 – Saturday**

Time: **5 pm**

Talk - in: **147.18 MHz**

Cost is \$10 per person, and RSVP to Roger / N4ZC either on packet, on 2m (147.18) or by land - line at 263 - 1133.

HAMFEST NEWS:

Upcoming hamfests, thanks to John Covington, WN4BBJ.

Oct. 5	Rock Hill, SC
Oct. 12	Augusta, GA
Oct. 13	Maysville
Oct. 19	Tri-Cities (Gray, TN)
Oct. 20	Monroe Hamfest & Barbeque

The Wimp-meister, a/k/a W4MPY, reported that the Shelby hamfest was fantastic, the weather couldn't have been any better, and the crowd was the biggest in his memory. He also said that he has attended Gaithersburg, which is supposed to have a huge flea market, and Shelby beat it hand's down. Matter of fact, Wayne went so far to say that if Shelby could get some more commercial exhibitors and air conditioning, it could make a run at Dayton! Congratulations to the organizers of Shelby this year. (Your editor should have gone, instead of staying home to watch UNC shellac Clemson on TV.)

There is no way I can make a comparison of the Dayton hamfest this year, because it is the first one I have ever attended. Even though I spent all of my time inside at the DX and Contest presentations and looking at the commercial exhibits, it was great just to be there, shake new hands, and make new acquaintances. The DX and Contest dinners add even more to the experience by providing presentations, evening meals and drinks, and awards. If you haven't "Done Dayton" yet, you owe yourself the trip!

CONTEST NEWS

This is the time of year that serious testers really get cranked up for the big ones, and we DX'ers try to work some new ones. Put these dates on your calendar (check QST and CQ for details):

September:

SAC (Scandinavian Activity Contest) CW: 9/21 - 9/22
Washington State Salmon Run (state QSO party): 9/21 - 9/22 (good prizes)
CQWW RTTY: 9/28 - 9/29
SAC SSB: 9/28 - 9/29
Tennessee QSO Party: 9/29 - 9/30 (help our neighbors!)

October:

California QSO Party: 10/5 - 10/6 (good prizes!)
VK/ZL SSB: 10/5 - 10/6
RSGB 21/28 MHz SSB: 10/6
VK/ZL CW: 10/12 - 10/13
RSGB 21/28 MHz CW: 10/20
CQWW SSB: 10/26 - 10/27

November:

ARRL SS CW: 11/2 - 11/4
Japan International DX SSB: 11/8 - 11/10
Worked All Europe RTTY: 11/9 - 11/10
ARRL SS SSB: 11/16 - 11/18
CQWW CW: 11/23 - 11/24

December:

ARRL 160 meter: 12/6
ARRL 10 meter: 12/14

Three state QSO parties are included. The California QSO party results in a lot of good band activity, and the prizes are great (California wine). Likewise, the Washington state QSO party has lots of activity and prizes. Finally, try to get on and give some of our DX'ing and contesting friends to the west some help in the Tennessee QSO party.

For the internet - traveler, Bill/KM9P has developed a web page devoted to contesting:
[HTTP://www.contesting.com](http://www.contesting.com)

DXCC changes since 1987:

When did Yemen 7O get added? When was Abu Ail deleted? Hey, does my Aruba on 6 meters in 1985 count? Keep this list handy to answer all your DX date questions. (Thanks to Jim/KA6A for this info.) The dates in parenthesis indicate the effective date for DXCC.

Jan. 87	3y Peter 1 added (1/25/87)
Apr 88	P4 Aruba added (1/1/86) S0 Western Sahara moved from deleted to active
May 89	4J1 Malyj Vysotskij added 3D2 Rotuma added
May 90	3D2 Conway Reef added T33 Banaba added ZS9 Walvis Bay added (9/1/77)
Mar 91	7O added (5/22/90) Y2 East Germany deleted (10/2/90) 4W North Yemen deleted (5/21/90) 7O South Yemen deleted (5/21/90)
Sept. 91	ZS1 Penguin added
Jan. 93	4N4 Bosnia - Hercegovina added (10/15/91) 9A Croatia added (6/26/91) S5 Slovenia added (6/26/91)
June 93	A1 Abu Ail deleted (3/31/91) OK Czechoslovakia deleted (12/31/92) OK Czech Republic added (1/1/93) OM Slovakia added (1/1/93) 4N5 Macedonia added (9/8/91)
Jan. 94	E3 Eritrea moved from deleted to active (5/24/91)
April 94	ZS1 Penguin deleted (3/1/94) ZS9 Walvis Bay deleted (3/1/94)
June 95	P5 North Korea (per ARLD036/95, 10/1/95)

6 METER NEWS:

General reports on the internet indicate the North Atlantic e's may not have lived up last summer's performance. However, there were still many cross - Atlantic QSO's on 6m this summer. I'm still waiting for my first European on 6 meters, but I think I'll have to do better than a 5 element yagi at 30 feet to get it.

A group of Dutch amateurs, using the call 4L6PA, make what is thought to be the first QSO's from the Republic of Georgia this summer. They made many QSO's in Europe, of course, but they were also worked in Japan. More activity like this will have the die - hard 6m ops crossing the 200 country mark at the top of the next cycle.

And who are these die - hard 6m ops? We know lots of them locally; here are the world - wide DXCC leading scores from GJ4ICD's 50MHz Country Listing with callsign and number - worked shown:

JA4MBM	158	GJ4ICD	157	PA0HIP	155
JA1BK	151	PY5CC	151	SV1DH	151
G3WOS	150	PA3BFM	149	G4CCZ	147
G4IGO	145	ON4KST	141	G4UPS	141
JE1BMJ	140	ON4ANT	139	SV1EN	137
VE1YX	136	JA1VOK	135	G0JHC	135
ON4GG	135	SM7FJE	133	WA1OUB	132

The ARRL has awarded over 200 6m DXCC certificates.

For those wondering what is happening on 6 meters in the summer elsewhere on our planet, here's what the JA's were working in July: RW0CD, UA0CQ, BO0KS, 3W1SEA (!), BV5HH, VS6XVD, VR2ZXY, JD1BJP/JD1, KH2JU, BV2FI, JT1KAA (!!!), HL1LTC, BV2SR, BV3FG, and JT1BV (!!! - 2 JT's on 6m).

TIDBITS:

Here are some strange and random notes from my file.

1. Looking for IRC for some filters? KI5JC says they can be reached at:
407 - 489 - 0956 for orders Tuesday - Friday, 1 - 5 pm; 407 - 489 - 6302 for repair work
2. The Voodoo Contest group is preparing for another "attack" on a West African country; this time, it's Togo 5V. They have a web page at: <http://www.getnet.com/~kf7ay/5v5a.html> for providing info on the expedition. They will be full - bore in CQWW CW with 6 stations.
3. Voice DX spotting frequencies: several cities have voice DX spotting frequencies. In Atlanta, the SEDXC has one on 147.51 simplex. Here are a few other choices:

Houston (147.36+)	Los Angeles (145.58-)
San Francisco (147.36+)	San Diego (144.15 simplex)
Seattle (147.00-)	Portland (145.39-)
4. Track the Heard Island expedition:

Jan. 8: leave Crozet
Jan 12: arrive Heard
Jan 13 - 27: operations from Heard
Jan 28: leave Heard
Feb. 5: arrive Reunion Is.
5. New callsigns for the UK: (thanks to G3SXW)
England: G, GX, M, MX, 2E
Isle of Man: GD, GT, MD, MT, 2D
Northern Ireland: GI, GN, MI, MN, 2I
Jersey: GJ, GH, MJ, MH, 2J
Scotland: GM, GS, MM, MS, 2M
Guernsey: GU, GP, MU, MP, 2U
Wales: GW, GC, MW, MC, 2W
Hear a GB prefix? Better ask the op the QTH, because it is not possible to tell from the call!
6. Is this the best ham radio DX web page in the world? Check out WWW.DXER.ORG. compliments of the Texas DX Society. Or, visit K5XI's page (you know, the guy with the 250 ft tower!) at <http://www.wt.net/~k5xi/ktxi.html>.
7. Did you work AA8Ugly from South Cook this summer (ZK1AAU)? He came up with an interesting idea for a multi-band low-band antenna: traps for 30, 40 and 80 meters and wire for a 160/80/40/30 meter wire vertical. Here are his dimensions:
Feedpoint to 30m trap: 21' 4"
30m trap to 40m trap: 7' 8 "
40m trap to 80m trap: 23'
80m trap to end insulator: 39' 1"
Radials: 5 x 133', 5 x 68', 10 x 33'
For 160 meter operation, a 28-50 OHM UN-UN was used.
Bruce tested this at home before the expedition. On 160 meters, compared to his full - size vertical and over 30K feet of radials, the "Ugly as L" antenna was within 6 to 10 dB.

TIDBITS: (cont.)

8. I came across an old friend at the Clemson University library my first day back this semester. I wandered up to "TK1.Q1" and found the bound copies of QST. In the May 1970 issue was my first recollection of a truly huge antenna: K3JH's 2 element rotatable 80 meter quad, built on his Telrex big Bertha system. (I gather K3JH/Joe Hertzberg is now a Silent Key as his call has been reissued to a James Hertok.) I can't count the times I took a late - night study break just to go look at this antenna and wish I could build something like it someday.

9. Vanity gate 2 opens September 23. How big is YOUR phone bill from calling friends and checking web pages to check on calls?

10. Rag/OZ8RO uses an inverted - L for 160 m, but the length is not 1/4 wavelength. He uses a radiator that is 52 meters (170.6 ft) long. This was modeled on ELNEC versus a standard 1/4 wavelength vertical, and the differences were virtually indistinguishable. The 52m length depicted almost 0.3 dB greater gain (5.142 vs 5.450 dBi), and the feedpoint impedance was $94 + j309$ ohms versus $34.7 - j11$ ohms for the 1/4 wave wire. Rags uses a 500 pF cap in series, which provides - j174 ohms, but the feedpoint impedance is still $94 + j135$. With virtually no difference in gain (making a valid comparison with ELNEC), and a much higher feedpoint impedance, what is he gaining? Bandwidth? Your editor wants to know.

11. Do you use Telnet? If so, there are a number of packetclusters with Telnet addresses that are linked together. The one that I have found to be very accessible is WD5B, and it can be reached at: 205 . 153 . 140 . 12 To enter the system, provide your callsign at "login" and just press the enter key when it asks for "password." At the prompt, type "DXC" and you're into a packetcluster system. This is just something to do at work when you really don't want to do what your boss is screaming at you to do.

12. Remember the writings of Hugh Cassiday, WA6AUD, in the West Coast DX Bulletin? Paul Dunphy/VE1DX has taking up the torch and continued the QRP'er, Old Man, Red - Eyed Louie, and Palos Verdes Sundancers stories. I've encouraged him to publish his stories, but as yet he has simply put them on a web page: <http://www.geocities.com/CapeCanaveral/1641/> I haven't tried the address, but I assume it's OK. By the way, Cass/WA6AUD has made no copyright reservations on any of his writings and Paul is taking the same approach. After all, this IS a hobby, right?

14. Remember the 6 meter expedition to Jordan in 1994? Can you believe a US ham, specifically WD4KPD, managed to work them? This has to rank as an all - time miraculous QSO.

15. Want to see what's happening in Japan? Check out the JA DX Web cluster at: <http://www.big.or.jp/~ham/dx.html>

16. Trying to get a card from EY/UJ - land (Tajikistan)? Try writing to Nodir, EY8MM at: Nodir M. Tursoon - Zadeh, EY8MM, P. O. Box 303, Dushanbe, 734001 Tajikistan, CIS. He posted a large list of before-and-after calls to the Internet DX reflector. I was trying to get a card from UJ8JI, and I see from Nodir's list that he is now EY8AM. (Unfortunately, Nodir also lists some Silent Keys such as UJ8SAO, UJ8JX, and UJ8AZ.) If you want to try an email to Nodir, his address is: ey8mm@tarl.td.silk.glas.apc.org OR ey8mm@sovam.com

17. China is now using the BD prefix — BD4TB has been worked on the West Coast.

TIDBITS (continued, again)

18. 9M2JJ (SM0OEK) is trying to activate Spratly Island (Pulau Layang). He has requested a 9M0 call, but was initially issued a 9M6 call. He's retreading the Malaysian beaurocracy to get the 9M0 callsign and make a run at a TBA date for a Spratley expedition.

19. W8JI/Tom (always a great source of antenna information) made some field strength measurements between his 1/4 wavelength vertical on 80 meters and the following combinations of radials. The reference (0 db) is 60 surface mounted radials; all other measurements are "dB down" from the reference:

>4 ground mounted radials: - 5.5 dB

>4 elevated radials: - 4.3 dB (8 ft high)

>8 ground mounted radials: - 2.7 dB

>8 elevated radials: - 2.38 dB

>16 ground mounted radials: - 1.3 dB

>16 elevated radials: - 0.63 dB

>60 elevated radials: - 0.18 dB

>60 ground mounted radials: -0.0 dB (reference point)

It is OBVIOUS that it is worth your effort to go from 4 to 16 radials, whether you elevate them or not! (I believe Tom used 0.41 wavelength radials for these tests.)

20. Honk Kong amateurs will be using special prefixes to "commemorate the transfer of sovereignty over the territory from the United Kingdom to the People's Republic of China on 1 July 1997." VS6's will be allowed to used "96" in place of "6" in 1996, "97" in place of "6" in 1997, and then "98" in 1998. That is, VS6BG will be using VS97BG after 1/1/97. Furthermore, the VRA-VRZ callsign block will be transferred to the PRC on 1 July 1997. It is unknown at this time what the new prefix for VR6 Pitcairn Island will be. (Thanks to VS6BG for this info.)

21. I teasingly asked Petri/OH3MEP, who is a frequent visitor to OH0 - land, about Swedish women. Here's what he said: "Well, personally, I do prefer those Estonian girls! Huge amount of beauties on those mini-skirts, whew. I sure will be back there next summer." No, this has nothing to do about DX but was just one of those strange rambling notes I promised.

22. Who are you using to get DX stamps nowadays? Ted/K1BV recommends: William J. Plum, 12 Glenn Road, Flemington, NJ 08822 - 2612. Ted says he has air mail rate stamps from 162 countries, and sells "European" style large airmail envelopes.

23. The Low Band Monitor's "Season" has started again. K0CS, editor and publisher of the LBM, offers an award program each year for the first station to: 1. get WAC on 160 meters; 2. work 100 countries on 80 meters; and 3. work 150 countries on 40 meters. The program is based on the honor system, and a plaque is offered to the first station to hit each level. If you are interested and serious about 160/80/40 meter DX, this is the magazine to read! Contact K0CS at: Low Band Monitor, P. O. Box 1047, Elizabeth, CO 80107.

24. Please check out an insert that Roger/N4ZC will add to this issue that will give important information about the packetcluster system!

DE: AD4MQ

Jerry Hagen
201 Pat Stough Lane
Davidson, NC 28036

(704) 896-1723

THREE BANDS - ONE WITH GAIN

In the past good low band DX success had been obtained with several verticals. This included the Butternut HF2-V for 40 & 80 meters and also with the 160 Meter Coil. Also constructed were full size 30, 40, and 80 meter verticals. These were ground mounted with 10 to 28 radials laid on top of the ground. In the Spring of 1994, I decided to try two phased verticals on 40 meters, spaced 1/2 wave with a switch to feed broadside or endfire. The W5UDV & NZ5A write-up in June 1994 QST was used as a guide. I then decided to try using the old Butternut HF2-V as one of the verticals, and incorporate a switch system allowing it to be used alone for 80 or 30 meters. This would provide some gain and directivity on 40 meters while permitting operation on the other two bands.

CONSTRUCTION

The single band 40 meter vertical was initially constructed of 6 pieces of aluminum from 1-1/8 down to 1/2 inch. This vertical and the HF2-V were then installed on 4"X4" treated posts with the base of the vertical about 7 feet above ground. Nine above ground 34 foot radials of #18 silky wire were installed on each vertical. Due to some large trees and lot limitations, the verticals are about 61 feet apart, rather than 66 or 67 feet. Also because of space, the array is oriented endfire to Europe/Pacific and broadside to South America/Japan. As theory says the broadside has 1db more gain than endfire, I would have liked it the other way! The old faithful Palomar noise bridge was hauled out to cut 3 electrical 50 ohm half wave coax lines and it was time for tune-up!

TUNING

An immediate problem was encountered as the 40 meter vertical was flimsy and resonant at about 7.250 Mhz (not good for CW). This was corrected by adding a 3/8" piece in the top and double walling some of the lower pieces to stiffen it mechanically. The vertical needed to be lengthened quite a bit, but from prior yagi experience I knew that telescoping elements need to be longer than the formula. When making the SWR measurements I took down the other antenna to assure no interaction. The final resonance was about 7.080 Mhz. The HF2-V was adjusted for resonance at the same point. The half wave feed lines were then connected from the verticals to a "Tee" connector and from there to the transmitter with a random length of coax. Although the SWR at the feed of each vertical was about 1.2, the initial SWR at the Transmitter was

about 2.6 and the 40 meter vertical was drawing about 14 watts while the HF2-V was drawing about 11 watts at the "Tee". I had expected some problem because of dissimilar verticals and an impedance difference noted when tuning the verticals. I tried every trick in the book to get the power to divide more equally including de-tuning the 40 meter vertical at the feed point with an antenna tuner and swapping the half wave feed lines. Finally, by adjusting both antenna lengths, I got the SWR at the Tx down to 1.8 and power of 13 watts to the 40 meter vertical and 11 watts to the HFV-2 and decided this would do! When switched to end fire the SWR was 1:6 at 7.020 MHz. It sure took a lot of time to move the Bird watt meter from side to side and take readings! The next time I will borrow another Bird meter so that there is one on each side of the "Tee"! The array is fairly broad-band and does not approach 2:1 SWR until about 7.230 MHz.

INITIAL RESULTS

Testing on 40 meters was a good experience! The array "sailed" through pileups to both Europe and the Pacific. Pileups for TT8/F5LGF, 5U7Y and A71AN were *not* a problem! While listening to a JA the cables were manually changed to broadside with a good 2 "S" unit difference. In November and December of 1994 some nice LP DX including EX8F, UK8AX, HZ1AB, 4K500A and VQ9QM were worked on the LP about 1200 GMT.

SWITCHING

While the vertical construction was in work, WA6ISP designed a PW Board switch using two 15 amp open relays. The board is mounted in a military "Ammo" can which has a seal. An immediate problem occurred because position #3 shorted across the phasing line to feed both antennas for broadside but the half wave phasing coax line was not isolated so it acted like a dead short across the receiver! The revised switch uses 3 relays with #1 & #2 for broadside and #1 & #3 for endfire through the phasing coax. The center position on a toggle switch selects only #1 which is the Butternut for operation on 30 or 80 meters. The control switch uses 3 conductor #20 wire with a plug in 12VDC power unit. Unfortunately, the revised remote switch did not arrive before the CQWW, so a manual switch (two coax antenna switches back to back) was used. Results on 40 meters were good, with 34 zones and 98 countries worked. The verticals quickly cut through the J28EN, YK0A and 9X5EE pileups, but it was difficult to run Europeans with the "Big Guns" on the band!

The revised PW switch arrived 3 days after the Contest! It was installed and the array direction can be changed in an instant! The front to side on receiving ranges from one to three "S" units, and seems to be more pronounced on longer haul DX in the morning. For evening openings to Europe the front to side varies greatly from hardly perceptible to two "S" units, with the larger difference on Eastern Europeans (S5, YU & LZ). The received front to side also varies from day to day depending on band conditions. In the final analysis, the 2 verticals is much better than one, and seems to be comparable

with a 2 El shortened Hy-Gain 40 meter yagi which I used years ago. In the 95 CQWW 32 zones and 104 countries were worked despite the absence South American and Pacific activity.

80 AND 30 METER OPERATION

The last task was adding 3 radials for 30 meters and 3 radials for 80 meters to the Butternut HFV-2. With the switch in the open position, the SWR on 80 meters is very low and on 30 meters a 1.8 SWR was measured. Operation 80 meters has been very effective with 9K2, TA2, SU2MT, 7X, ZA1AJ, S0, YJ, KH0 and VP8 worked. Performance was excellent on 80 meters in the 95 ARRL CW Test and several Europeans commented "Nice Signal"! The 30 meter performance has also been good and it did not take long to qualify for the DX Magazine "30 Meter Century Award"! Several 30 meter long path contacts were made during the Winter, although I could not get through the pileup for an S2 one morning!

RETROSPECT

Although the results of the antenna are excellent, I would probably seriously consider ground mounted verticals and radials if the project were initiated again. The first reason would be to avoid the mess of radials in the back wooded section of my lot. With 9 radials for each vertical on 40 meters and 6 additional for 80 and 30 meters on the HF2-V, little radial expansion space is available. However, in a ground mounted situation, more radials would probably be required. On the electrical side, several of my DXer friends feel that there could be de-tuning of the radials as they are not at least one quarter wave above ground. Perhaps this would have helped the power division problems when tuning the verticals. Also, I should have invested the time to model the antenna on AO or W7EL software! However, the 40 meter results have been excellent, and after one year of use, 38 Zones and almost 200 countries have been worked on 40 CW. The missing zones are 23 and 26 which have been heard but not worked! It has been fun to crack through some big pileups for VP8SGP, J20UFT, 5A1A and 3V8BB with relative ease! The array has made the 1994 & 95 Winter's a "DX Success" despite being near the sunspot minimum!

DXPEDITION NEWS

In the spring issue of The Pileup, I didn't include much "DX info" because I assumed virtually all of the members either subscribed to a DX bulletin (paper) or got DX info from the web (electronic). This was a bad assumption on your editor's part, because more than one member asked me "Where's the beef?" (meaning DX info) and I was glad to get the feedback! To wit, here's what is happening on the bands for the next few months. (Thanks to 425 DX News, ARRL DX Bulletin, Internet DX Reflector, Ohio/Penn DX Bulletin, and QRZ DX.)

- VK0 Heard Island -- the biggie to start the year. The dates are listed under tidbit number 4, but to repeat the currently planned starting date is Jan. 13, 1997. This is ONLY 4 months away -- get your low - band antennas tweaked.
- 3B8 EA2KL and EA3ELM plan for 10/23 - 10/30 operation from 3B8CF's QTH. Will be active in CQWW SSB.
- 3B9 EA2KL and EA3ELM plan to QSY to Rodriguez after the 3B8 operation; 10/31 - 11/5. License is pending.
- 3C1 EA6BH said he plans to be 3C1DX on CW/SSB/RTTY/HF/WARC from 10/16 to 10/22.
- 3D2/R Rotuma: 3D2AG's expedition to Rotuma has been postponed to the end of October or November.
- 3V8 Numerous operations continue to occur from the 3V8BB club station, the only valid 3V8 at this time. DF2UU and DK9IP are there now (mid - Sept.). YT1AD plans to operate there for CQWW SSB 10/26-10/27. Before and after CQWW, Hranek will be QRV on CW on the WARC bands.
- 5R Ray, ex-7P8SR, is now QRV as 5R8FK.
- 5X ON6TT is planned to be active again starting Sept. 7, using the call 5X1T. He will be QRT for 3 months to join the Heard Island team. (ed note: I exchanged emails with Peter last year about how he manages his job, traveling and family obligations. Basically, he said his wife can deal with him being gone because he is home a lot between contracts.)
- 7O Nothing. Carl/WB4ZNH spoke with the Yemeni Director General of Telecommunications, and amateur radio is not currently allowed.
- 9Q EA4BB will be active as 9Q5BB for a year, with reported plans to be on CW and SSB on all HF bands.
- A35 A35RK, Paul, is now active on 40 - 15 m CW/RTTY. He will be on 80 in a few weeks.
- A4 A45ZN is QRV on 80 and 160 M 4 to 5 nights a week.

DXPEDITION NEWS (cont.)

- FR Wanna get FR confirmed on the low bands? EA2KL and EA3ELM will be QRV from Reunion after the 3B9 leg of their Indian Ocean trip: 11/6 - 11/12.
- FR/T Tromelin: FR5ZQ is reported to be active now but I have seen no reports.
- FT FT5WE is QRV through December.
- HS HS50A will be active in CQWW SSB. Rules have been submitted to the Thailand PTT for operation on 80 meters (currently not allowed), so hopefully those needing zone 26 on 80 (your editor) will have a shot this year.
- JD/O Ogasawara: JQ1SUO will be active on 160/80/40/30/20 CW and 80/40/20 SSB from 12/16/96 to 1/3/97.
- JX JX7DFA will be active through April 1997, as LA7DFA has signed up for another tour.
- JY WB9YXY will be QRV from Jordan 10/1 - 10/20 as JY8XY, 80 - 10 M CW and SSB but no WARC. No promises for 160m, but he promises to try.
- KC6 Look for KC6BG or T82AA in CQWW SSB by LX2AA.
- KG4 Guantanamo Bay will be activated by WB6VGI from 9/10 to 9/25.
- LU6Z Lots of complaints in various media about lack of QSL's.
- PY0/T Trindade/Martin Vaz: PT2GTI, PT2HF and PT2NP will be active from here the first week of October -- SSB/CW. Callsigns will be ZV0MB and ZV0MV. As the current plans call for the Brazilian navy to helicopter the team to the top of Martin Vaz, they should have a great signal.
- TL TL8MS is reported to be active again -- QSL via DL6NW.
- TY TY1RY by W6OTC, G0AZT, KE6FV and WF1B at the end of September. TY1IJ is reported to be QRV now.
- VK0/ Macquarrie: Warren, VK0WH, is basically QRT now. One of the transmitters is broken, and workload has increased tremendously. (ed: Isn't that ALWAYS how it is at the end of a project?) However, there is hope for those still needing VK0/M. DL5EBE reported that Warren said an amateur radio operator will be in the next team. Warren reported making 1200 QSO's in about 50 countries, on a trip in which his only planned operating was to keep a weekly sked with some friends back home.
- ZL7 Per VK9NS, ZL7PR is a pirate.
- ZS8 ZS8IR continues to be active on many bands. ZS6RI will be there until 7/97.

Call	Name	Address	City	State	KIP	Telephone Number
	Pioneer ARC/David Reams	PO BOX 30188 (13832 BSC)	Charlotte	NC	28230	
AAOME	Tom Irvin	3321 Woodwardia Dr.	Charlotte	NC	29210	704-554-9986
AA4PQ	L.A. Simpson	3306 Old Charlotte Hy	Monroe	NC	28110	704-283-1593
AA4R	Bill Parris	16741 "100" Norman Pl.	Huntersville	NC	28078	704-892-4081
AA4S	Ron Bailey	420 Community Road	Shelby	NC	28152	704-487-0337
AA4SQ	Charlie McSwain	1708 Woodlea Road	Charlotte	NC	28214	704-392-5056
AA4V	Steve Reichlyn	4710 Meadowood Road	Columbia	SC	29206	803-762-8169
AA4ZZ	Paul Trotter	9128-G Nolley Ct.	Charlotte	NC	28270	NA
AB4AE	Rick Neuman	1116 Mallard Landing Dr.	Monroe	NC	28110	714-289-3431
AB4VV	Sonny Peeler	421 N. Salisbury Ave.	Salisbury	NC	28146	704-279-2773
AB4WD	David Valk	3009 Anderson road	Long Beach	NC	28465	910-278-1474
AB4ZM	Jim Brown	6534 Babers View Drive	Vale	NC	28168	704-462-1628
AD4HC	Mary Harper	1704 Anita Drive	Laurinburg	NC	28352	910-276-1539
AD4IE	Paul Ponak	635 Crater St.	Charlotte	NC	28205	704-332-1882
AD4MQ	Jerry Hagan	201 Pat Stough Lane	Davidson	NC	28036	704-896-1723
AD4SK	Steve Collins					
AEMAT	David Leonard	740 Charter Place	Charlotte	NC	28211	704-365-4754
AEMIC	Bob Kellogg	4708 Charlottesville Road	Greensboro	NC	27410	910-292-4725
AG4L	Bruce Gregg	1544 Fox Dairy Road	Newton	NC	28658	704-465-3715
AK4E	Dan Morehouse	PO Box 23	North Sutton	NH	03260-0023	603-927-4461
AK4N	Grady Robinson	902 Forest Drive	Lancaster	SC	29720	803-283-8298
K0SD	Stephen Rudensiek	225 Beulah Lane	Salisbury	NC	28146	704-279-1460
K2SD	Scott Douglass	1591 Trojan Horse Circle	Fleetwood	NC	28626	
K4WVQ	Frank Dowd	623 Lester Davis Road	Waxhaw	NC	28173	704-843-5968
K4CBF	Larry Sessoman	4383 Ponderosa Lane	Concord	NC	28025	704-782-2245
K4DFW	Bob Patton	2548 Aspen Terrace	Rock Hill	SC	29732	803-366-5500
K4DGV	Sam Hawes	308 Minden Lane	Matthews	NC	28105	704-847-2355
K4DV	Richard Moser	510 Third Ave Dr. SE	Hickory	NC	28602	704-324-7423
K4DY	Les Murphy	PO Box 626	Hickory	NC	28603	704-324-9111
K4EMN	Tony Elia	3520 Lakeview Drive	Pfafftown	NC	27040	919-922-1790
K4HJE	E.V. Hicks	1467 Spring Mill Circle	Karnersville	NC	27284	910-996-5081
K4IGB	Walter C. Lockhart, III	3418 Pearridge Road	Charlotte	NC	28226	704-543-9344
K4IDN	Kent Miller	941 Ridge Road	Lexington	NC	27292	
K4JO	Ellicott Valentine	4495 Bannavia Wayside	Pfafftown	NC	27040	919-924-1323
K4MQO	Gary Dixon	1606 Crescent Ridge	Fort Mill	SC	29715	803-547-7450
K4NVV	Lynn Pendleton	3617 Country Cove Lane	Raleigh	NC	27606	919-829-9449
K4PB	Alan Harp	8113 Belgium Dr.	Raleigh	NC	27606	919-362-8911
K4PTT	James Ripper	1818 The Woods Drive	Jacksonville	FL	32216	904-221-6483
K4QO	Douglas Sanders	710 Hasket Way	Bennettsville	SC	29512	803-479-0334
K4SE	Bob May	PO Box 453	Jonesboro	TN	37659	615-753-3662
K4SLC	Don Brennan	11502 Painted Tree Road	Charlotte	NC	28226	704-542-2855
K4ULH	Jim Long					
K4YYL	Art Balz	PO Box 6762	Greenville	SC	29606	803-244-4850
K5CTG	Joe Curlett	3549 Antenna Farm Road	Bolivia	NC	28422	919-253-5336
K5ZLN	William Turner	4000 Horseshoe Bend	Matthews	NC	28105	704-846-5499
K64WPL	Pat Patterson	1418 Binford Crt.	Charlotte	NC	28212	
K64DEY	Nobby Mills	132 Sunset View Lane	Statesville	NC	28677	704-528-5013
K64VAE	Boyd Williams	POB 82, 140 Beam St.	Fallston	NC	28042	704-538-7692
K64YM	Claude Oakes	410 Cherryville Rd.	Shelby	NC	28150	704-480-0050
K64YON	Jack Guion	817 Lynbrook Drive	Charlotte	NC	28211	704-365-3061
K64YL	Bill Taylor	214 Palham Lane	Fort Mill	SC	29715	803-548-0908
K64RH	Gary Bader	PO Box 6212	Florence	SC	29502	803-667-6160
K64UC	Gordon Plyler	P.O. BOX 848	Monroe	NC	28111	704-289-3453
K64VA	Al Groth	599 Covington St.	Sumter	SC	29150	803-775-7665
K64EW	Dave Immel	5618 Davis Rd.	Waxhaw	NC	28173	
K64KGB	Joyce Madlen	696 Loblolly Dr.	Vass	NC	28194	910-254-4348
KF2X	Craig England	1105 Andrews Mill Rd.	Lamar	SC	29069	803-326-1336
KF4HK	Jim Miller	11600 Kilda Court	Charlotte	NC	28226	704-542-6162
KF4NO	Robert Denton	5618 Cherrycreek Lane	Charlotte	NC	28217	704-525-9297
KI4HN	Jim Stevens	6609 Vardon Ct.	Furquay-Varina	NC	27526-9465	919-557-5420
KI4TZ	Joe Barkley	10101 Nat Field Drive	Charlotte	NC	28278	704-588-9890
KI4UD	Nestor Ravenna	7108 Potter Rd.	Matthews	NC	28105	704-821-8418
KI4YV	R.V. Southworth	142 MeadowCreek Lane	Mooreville	NC	28115	704-663-3135
KM4CC	Steve Freeman	831 Wingrave Drive	Charlotte	NC	28270	704-366-6537

Call	Name	Address	City	State	ZIP	Telephone Number
KN4FO	Larry Jones	10110 Pioneer Mill Rd.	Concord	NC	28025	704-455-9650
KN4R	Brian Harrison	420 Will Proctor St.	Denver	NC	28037	704-483-5679
KN4R	Brian Harrison	4036 Will Proctor Street	Denver	NC	28037	704-483-5679
KO4GU	Tim Creech	8526 Dogwood Drive	Charlotte	NC	28215	704-536-4217
KO4KC	Ken Cannaday	1929 Ewing Avenue	Charlotte	NC	28203	704-372-8551
KO4PM	Gregg Swain	Rt. 2 Box 449	Dobson	NC	27017	910-374-5771
KR4IN	Paul Eaton	122 Macho Lane	Cleveland	NC	27013	704-528-9695
KR4PG	Larry Castner	PO Box 248	Waxhaw	NC	28173	704-843-5009
KR4RW	Bill McKay	617 Edgewater Dr.	Belmont	NC	28012	704-825-8094
KT4ED	Ed Evans	150 East Meadows Lane	Boone	NC	28607	704-265-1960
KT4HN	Thomas Wright	714 Monroe Road	Charlotte	NC		
KU4V	Wayne Starnes	701 Channing Circle	Concord	NC	28027	704-782-5354
N4AA	Carl Smith	PO Box 6843	Ashville	NC	28816	704-683-4251
N4APR	Ray Weeks	3025 Cutchin Drive	Charlotte	NC	28210	704-553-0112
N4AXT	Hugh Campbell	1409 Cambridge Ave.	Gastonia	NC	28052	704-864-4844
N4AYO	Mike Jackson	2568 Devon Dr.	Dallas	NC	28034	704-922-3593
N4BZG	Ervin Jackson	819 Museum Drive	Charlotte	NC	28207	704-375-6565
N4IYB	Terry Scala	8510 Glenway Ct.	Charlotte	NC	28226	704-542-1028
N4JEV	Larry Ross	7148 Pitchfork Lane	Mint Hill	NC	28227	704-545-9775
N4MZL	Buddy Teague	2719 Old Purdue Road	Lancaster	SC	29720	803-286-5299
N4PQK	Bob Burton	851 Brookbank Rd.	Charlotte	NC	28209	704-522-0332
N4QOG	L. E. Fairley	408 Canterbury Dr.	Columbia	SC	29223	803-788-8061
N4ROL	Mark Roberts	1900 Townsend Ave.	Charlotte	NC	28205	704-567-6800
N4RTE	John Cannon	2985 Woodstream Drive	Valdese	NC	28690	704-433-1720
N4SU	Dave Kennedy	Rt. 3 Box 100	King	NC	27021	
N4SZ	Stephen Foster	102 Wedgewood Dr.	Anderson	SC	29621	
N4UH	Henry Elwell	Rt. 2 Box 20 G	Cleveland	NC	27013	704-278-4423
N4VLQ	Marc Suttle	2402 Carson Drive	Waxhaw	NC	28173	704-843-1417
N4WMB	Mack Shannon	PO Box 278	Lancaster	SC	29721	803-285-6357
N4YDU	Nathan Morechi					
N4ZC	Roger Burt	2421 Old NC 27	Mount Holly	NC	28120	704-263-1133
N4ZX	John Lambert	4805 Sentinel Post Rd.	Charlotte	NC	28226	704-542-0633
W74O	Mike Wood	PO Box 1979	Wake Forest	NC	27588	919-556-7940
W0EV	Bill Tippet	PO Box 37	New London	NC	28127-0037	919-494-7743
W1VWQ	John Kanny	107 Foxwood Dr.	Hendersonville	NC	28719	704-697-0141
W1WV	George Felber	1414 Farmstead Road	Rock Hill	SC	29732	803-366-3556
W4NFB	Carnegie Johnson, KE4BCK	P.O. Box 241206	Charlotte	NC	28224-1206	
W4DCR	John Troutman	111 Rutledge St.	China Grove	NC		
W4DCU	Ross Sigmon	BOX 70	Glendale Springs	NC	28629	919-982-3566
W4FHI	Reagan Rowe	1119 Kingscross Dr.	Charlotte	NC	28211	704-366-3058
W4HG	Wayne Ashworth	160 Bass Run	Salisbury	NC	28146	704-633-9330
W4HOF	Donald Voigt	PO Box 72	Dallas	NC	28034	704-922-3772
W4MBD	Bob McNeil II	PO Box 843	Morhead City	NC	28557	919-726-7711
W4MED	William Hutchison	73 Robinhood Circle	Winston Salem	NC	27106	919 924 6781
W4NHF	Robert Darke	500 Lenoir Rd. Apt. 305	Morganton	NC	28655	704-437-9934
W4NPF	Wayne Carroll	682 Mt. Pleasant Rd.	Monetta	SC	29105	803-685-7264
W4NC	Forsyth ARC C/O N4VHK	POB 11361	Winston-Salem	NC	27116-1361	910-723-7388
W4PVT	McFarland W. Wood Jr.	5800 McAlpine Farm Road	Charlotte	NC	28226	704-541-7929
W4UNP	Bill Jennings	630 Whitepine Dr.	Catawba	SC	29704	803-329-9095
W4UW	Richard Genaille	719 Quarterstaff Rd.	Winston-Salem	NC	27104	919-765-4697
W4WIT	Bernard Smith	5900 Masters Court	Charlotte	NC	28226	
W4WMO	Murphy Ratterree	264 Mayland Drive	Rock Hill	SC	29732	803-366-9057
W4ZQB	Al Quin	3301 Woodwardia Dr.	Charlotte	NC	28210	704-554-7315
W5VBN	Clifford Wagoner	9108 Chimney Ridge Trail	Charlotte	NC	28269	704-598-5373
W4LEHL	Gary Coulbourne	P.O. Box 140	Stony Point	NC	28678	704-585-2722
W4LGO	Raymond Crepeau	205 Sherwood Drive.	Summerton	NC	28778-2137	704-298-7289
W4LAF	Royce Goodwin	210 Edenville Road	Rock Hill	SC	29730	
W4LEG	Mike Smith	7725 Madrick Circle	Huntersville	NC	28078	704-393-5826
W4LEW	Bill Riffle	7612 Water Oak Lane	Monroe	NC	28110	704-753-4840
W4AOB	Ken Winston	3900 Brinton Place	Charlotte	NC	28226	704-542-6294
W4APL	Pete Eldridge	220 Pinewood Lane	Rock Hill	SC	29730	803-327-9284
W4ASS	Bob Cranford	1369 Little Valley Lane	Lincolnton	NC	28092	704-735-0903
W4ASW	Larry Standley	5413 Guida Drive	Greensboro	NC	27410	919-855-7095
W4AUN	Ken Boyd	6733 Cedar Springs Rd.	Charlotte	NC	28212	704-567-9733

